

GREAT ZIMBABWE UNIVERSITY
EXAMINATIONS OFFICE

NOV 2024

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ROBERT MUGABE SCHOOL OF HERITAGE AND EDUCATION

DEPARTMENT OF SCIENCE AND TECHNICAL EDUCATION

LEVEL 2 SEMESTER 1

EXAMINATION QUESTION PAPER

BACHELOR OF EDUCATION HONORS DEGREE SECONDARY

MODULE CODE: CBIS 213

MODULE NARRATION: MICROBIOLOGY

DATE NOVEMBER 2024

DURATION 3 HOURS

INSTRUCTIONS TO CANDIDATES:

1. Answer any THREE questions

2 All questions carry equal marks

1. Outline the contributions of the following individuals to the field of microbiology:
 - a) Hooke [6]
 - b) Van Leeuwenhoek [6]
 - c) Robert Koch [6]
 - d) Louis Pasteur [7]
2. Write short notes on the following microorganisms:
 - a) Fungi [8]
 - b) Bacteria [9]
 - c) Viruses [8]
- 3.a) Giving one named example, describe the characteristics of the following bacteria:
 - i. Psychrophiles, [5]
 - ii. acidophiles, [5]
 - iii. facultative aerobes, and [5]
 - iv. halophiles. [5]
- b) Differentiate between fimbriae and pili. [5]
4. Discuss the methods of microbial control and their applications in public health. [25]
5. Evaluate the role of microorganisms in biogeochemical cycles and their importance in environmental microbiology. [25]
6. Explain the significance of microorganisms in various fields. [25]

END OF EXAMINATION